

ABSTRACT

In a computer having a plurality of processors or in a computer cluster system, processing performance is improved by measuring operation characteristics of a process, and by performing process scheduling on the basis of actual measurements of the process operation characteristics.

In the computer or in the computer cluster system, a scheduling function is provided on an operating system that operates in each computer. The scheduling function controls the performance measuring means, which is provided in a processor or a system control circuit inside each computer, and obtains processor operation characteristics of each process. Thereafter, the scheduling function estimates operation characteristics, which will be obtained when executing each process on each processor, on the basis of the processor operation characteristics, and then optimizes assignment of each process to a processor.